

Developed from the highly successful **Steridium** 'i-series' incubators, the 'e-series' environmental chambers represent the very best in contemporary design and functionality. Precise control of temperature and humidity, with a variety of optional lighting control systems, makes the 'e-series' ideal for a wide variety of applications – from pharmaceutical stability testing, to plant growth chambers, electronic environmental testing and many more.



# environmental chambers

## Stable Control of Temperature, Humidity, and Lighting

**Steridium's** unique air-flow system ensures unequalled spatial stability throughout the chamber. Temperatures can be set up to 80°C, while various refrigeration options enable cooling to take place down to -20°C.



The powerful air circulation fan is also used to drive air over a waterbath whose temperature is accurately controlled by a precision RH sensor and an environmentally friendly CFC-free refrigeration system. This results in extremely stable humidity control between 10% and 90% RH. Various lighting options are available, from basic ON/OFF control to stepless intensity control at any value between 10% to 100%.



# STERIDIUM

environmental chambers

## Choice of Control Systems

Different levels of control system provide the user with the choice to match the requirements of each application to the complexity of control.

**Basic Manual Control** is typically used for long-term stability testing where settings do not need to be frequently changed.

**Diurnal Control** is ideal for plant growth chambers requiring simulation of day/night conditions.

**Programmable Control** is used for applications requiring specific profiles to be simulated. Steridium's ultimate in setpoint programmers has the capacity to store up to 50 programmed profiles in memory. Powerful software enables profiles to be pre-programmed and tested on a remote PC before downloading to the controller, while data logging software options present both digital and graphical records of actual conditions achieved in the chamber over a period of time.



## APPLICATIONS Plant Growth Chambers



## Pharmaceutical Stability Testing



SPECIFICATIONS & OPTIONS							
Numerous designs above 1600 litre capacity are available upon request Custom-made designs are a speciality of <i>Steridium's</i> engineering expertise							
MODEL		e170	e300	e500	e800	e1200	e1600
Chamber Dimensions	width	700	700	700	1490	1490	1005
	depth	600	600	600	610	610	1010
	height	400	750	1200	840	1260	1550
External Dimensions	width	866	866	866	1785	1785	1300
	depth	785	785	785	795	795	1195
	height	1085	1435	1885	1440	1860	2150
Capacity	litres	170	300	500	800	1200	1600
Temperature Range		ambient +5°C to 80°C					
Accuracy		<0.2°C variation with time					
Heating Element (kW)		0.7	0.7	0.7	0.7	0.7	0.7
Shelf Spacing		90	90	90	90	90	100
Shelf Positions		4	8	13	8	13	14
Electrical		220-240V, 50-60Hz Single Phase (alternatives available)					
Humidity Control		OPTIONAL					
Refrigeration to +4°C							
Refrigeration to -20°C							
Lighting Control							
Programmable Control							
RS 485 Interface							
Castors							
Internal Power Supply							
Internal Orbital Shaker							
Internal Glass Viewing Door							
Countdown Timer							
Temperature Alarm							

STERIDIUM

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